## Appendix B Domestic Well Sampling Work Risk Assessment

## Job Risk Assessment (WRA-02-2)

Document Control No.: WRA-02-2	Date Assessment Completed: 8/28/2009	Location: Yerington Mine Site	4. SH4.
		Risk Assessment Leader: Penny Bassett	D. D. O. W. M.
Domestic Well Sampling	Collect water sample from pre-existing domestic wells in project area by sampling from outside hose tap located near the well head. No pumping or water quality equipment is required.	Risk Assessment Team: Royanne Barringer, Briana Wright	BROWN AND CALDWELL
		SIMOPS: □ Yes ☑ No	CALDWELL
		Designated PIC:	VIO App.

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Work Plan (List Job Steps)  List the jobs required to complete the project scope in the sequence they are carried out.  Any tools of heavy equipment needed?  If YES, What Type  If YES, What Type  If YES, What Type	Do any of the Golden Rules of Safety apply?	Which of the 8 energy or biological root	How, where, or when could an uncontrolled release or unwanted contact with a biological or	Environmental Impacts	Pre-Mitigation Risk Evaluation				Permit(s) Required?	Energy / Biological / Waste Management Plan	Who is responsible for Hazard Mitigation?	Post-Mitigation Risk Evaluation				
		Include in Mitigation	If YES, Which of the 8? Which of the 8?	Note: Humans are highorical sources and their physical shillities commetency and training should	Could there be a release to the air, soil or water, and or, will a waste be generated?  If YES, What?	r Frequency	Consequence	Likelihood	Risk Score	If YES, What kind?	List control measures required to eliminate, control, or protect against unwanted contact with an uncontrolled biolog energy source to minimize the risk of injury or environmental Impact.  Hierarchy of Controls: Elimination, Substitution, Isolation, Engineering/ Administrative, PPE	al or Name or Title	Frequency	Consequence Likelihood	Risk Sco	
. Load sampling supplies and drive to sampling location - Sample bottles - Cooler - Paperwork (COC, labels)	Yes  Work truck	No	Yes Driving Safety	Motion Gravity	Motion Walking trip/slip hazards. Driving hazard on public roads include potential collision or loss of control. Trip distance is short and at neighborhood speed so the hazard is less significant. Unsecured loads in pickup truck bed can shift and cause property damage or fly out of moving vehicle. Gravity Lifting heavy items may cause back or other injury. Access in/out of truck be by climbing on tailgate could result in fall, sprain.	No	Frequent Exposure	Serious Consequence	Unusual but possible	Substantial Risk	No	Motion Maintain good housekeeping in supplies storage and loading area, remove tripping hazards. Ensure items are securely stored to prevent movement during transport.  Gravity Use safe lifting techniques and get help for heavy/awkward lifts. Workers should use 3-point contact when getting in/out of truck bed and organize supplies to minimize need to enter.	ample Technician	Frequent Exposure	Important Remotely Consequence possible	Minimal R
Notify homeowner of intent to sample Call in advance Knock on door	No	No	No	Biological	Biological Aggressive dogs could attack or bite. Homeowner could be resistant to visitors on the property.	No	Occasional Exposure	Serious Consequence	Conceivable but unlikely	Minimal Risk	No	Biological Call homeowner in advance to schedule a time for the sampling, ask if they have dogs and ask them to be restrained during the visit. Do not enter property without prior approval from homeowner.	ample Technician	Occasional Exposure	Notable Conceivable by Consequence unlikely	<sup>ut</sup> Minimal R
Turn on tap, purge water (~20 gallons), fill sample containers	No	No	No	Chemical Biological Motion	Chemical Contact with nitric acid preservative in sample bottle could cause 1st or 2nd degree burn to skin or eye.  Biological Tap sample location may be in area where spiders, bees, snakes, livestock could be present.  Motion Turning handles on well spigots located in tight spaces might present a threat to hands or fingers especially if the handles are initially difficult to start rotating.	No	Occasional Exposure	Serious Consequence	Unusual but possible	Low Risk	No	Chemical Nitrile gloves and safety glasses should be worn when handling open or unopened bottles. Bottles should be stored and transported to keep them in an upright position.  Biological Inspect sample location and find alternate tap location if there is an identified hazard. Ask homeowner to restrain or move animals or livestock.  Motion Wear leather or nitrile gloves to protect hands if tap is in a hard to reach location or other hazards nearby (i.e. insects)	ample Technician	Occasional Exposure	Important Remotely Consequence possible	Minimal R
I. Pack and ship samples	No	No	No	Motion Gravity	Motion Potential for back strain from awkward body position leaning over coolers while packing.  Gravity Large coolers can weigh >70 pounds if fully packed resulting in heavy awkward lift and possible back injury.	No	Occasional Exposure	Important Consequence	Unusual but possible	Low Risk	No	Motion Place coolers at waist height on a work table rather than on ground, this will provide more comfortable body position.  Gravity Use rolling table or hand cart to carry packed coolers from packing area to truck to keep heavy load at one level and avoid need to lift. Limit number of samples in a cooler to <50 lbs, request smaller coolers from lab if necessary.	ample Technician	Occasional Exposure	Important Remotely Consequence possible	Minimal Ri

Page 1 WRA-02-2 Domestic Well Sampling (2).xls